Place Value 3

Information

Common core icons

This icon indicates a slide where the Standards for Mathematical Practice are being developed. Details of these are given in the Notes field.

MODELING

Slides containing examples of mathematical modeling are marked with this stamp.

This icon indicates an opportunity for discussion or group work.

The **Standards for Mathematical Practice** outlined in the Common Core State Standards for Mathematics describe varieties of expertise that mathematics educators at all levels should seek to develop in their students.

These are:

1) **Make sense of problems and persevere in solving them.**

2) **Reason abstractly and quantitatively.**

3) **Construct viable arguments and critique the reasoning of others.**

4) **Model with mathematics.**

5) **Use appropriate tools strategically.**

6) **Attend to precision.**

7) **Look for and make use of structure.**

8) **Look for and express regularity in repeated reasoning.**

This icon indicates that the slide contains activities created in Flash. These activities are not editable.

This icon indicates teacher's notes in the Notes field.

Big number review

Recall that big numbers are made of **thousands**, **hundreds**, **tens** and **ones**.

Label this big number by dragging the words into the correct boxes.

Press **start** to begin.

start

Thinking about numbers

How many hundreds, tens and ones are there in this number?

Nicole wants her classmates to guess the **four digit** number she is thinking of. She decides to give them three clues.

- The digit in the hundreds place is **5**.

- The digits with the two smallest place values are **two smaller** than the digit with the hundreds place value.

- The digit with the largest place value is **one greater** than the digit with the smallest place value.

Can you guess Nicole's number?

Reading and writing big numbers

When we say big numbers out loud, or write them in **expanded form**, we need to think about place value.

1 6 , 7 4 2

Think about how many thousands, hundreds, tens and ones there are in this number. Then, write down the number name and expanded form.

- Sixteen thousand, seven hundred and forty two.
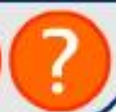
- 10,000 + 6,000 + 700 + 40 + 2

Can you count with big numbers?
Press the white boxes to see the displayed number in word and expanded forms.
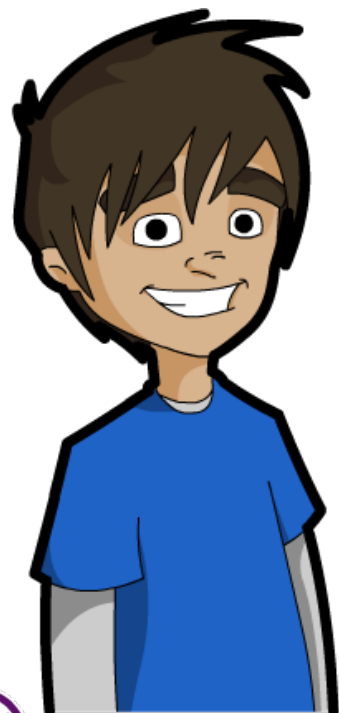Use the scrollers to change the displayed number and count as the number changes!

Press **start** to begin.

start

When we place numbers in order, we need to think about place value.

Numbers with larger place values are **bigger** than numbers with smaller place values.

Which of these numbers is the **biggest**?

Which is the **smallest**?

8,588   8,858   8,885   888

Drag these numbers into the correct order.

smallest   largest

9169   9196   9916   1699   1916

Test your knowledge of ordering big numbers in this team game! Get into two teams: **red** team and **blue** team. Take turns to reveal a card and then press to fill a space on your team's ladder. The first team to complete their ladder wins!

Press **start** to begin.

start

Comparing numbers using signs

We can use three signs to compare numbers.

Drag the correct sign into place.

3226   3224

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